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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/516,866	12/03/2004	Andreas Witzel	P17157US1	2414
27045 ERICSSON IN	7590 06/05/2007 NC.	EXAMINER		
6300 LEGACY DRIVE			KARIKARI, KWASI	
M/S EVR 1-C PLANO, TX 7			ART UNIT	PAPER NUMBER
		•	2617	
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			06/05/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/516,866	WITZEL ET AL.			
Office Action Summary	Examiner	Art Unit			
	Kwasi Karikari	2617			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 04/05		·			
•					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ☑ Claim(s) 1-17,19 and 20 is/are pending in the a 4a) Of the above claim(s) 18 canceled is/are wi 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-17 and 19-20 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	thdrawn from consideration.				
Application Papers					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the conference of the	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

Art Unit: 2617

DETAILED ACTION

1. The Art Unit location of your application in the USPTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Art Unit 2617.

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 04/05/2007 has been entered.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, the applicant recites the limitations "the protocol", however, there are insufficient prior antecedent basis for these limitations in the claims. For examination

Page 2

purposes, the examiner will treat the rejected claimed limitations in the broadest interpretation of the Applicant's specification. Appropriate corrections are required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-17,19 and 20 are rejected under U.S.C. 102(e) as being anticipated by Ejzak (20030027569 A1), (hereinafter Ejzak).

Regarding claim 1, Method for operating a switching node (= iMSC in 151 interworking with IMS141, Pars. [0008, 0029, 0046-47 and 0057] and Fig. 1) of a communications network comprising the steps of:

receiving a communication service request; processing the requested communications service;(= UE 111 initiates mobile call, see Fig. 5 steps 501 and 502;

Art Unit: 2617

IMS 141 supports services for mobile units using either circuit-switched or IP Multimedia call control procedures, see Par. 0008);

determining an operation mode of the switching node by identifying the protocol associated with the communications service request wherein the determined operation mode indicates whether the switching node is operative for the processing of the requested communication service part of a layered architectural environment (= IP system, see Par. 0020, 0022 and 0025) providing a user plane layer for user data and a control plane layer for signaling data (= determination for the system to serve as traditional MSC or iMSC server, see Par. [0012, 0095-97] and Fig. 4, steps 403 and 404), or

part of a non-layered architectural environment (= circuit switch domain, see Pars. 0020, 0022 and 0046) not providing a split between a user plane and a control plane (= serving system acts as iMSC or MSC server, see Par. [0021, 0094-95, 0101] and Fig. 4, step 408), and wherein the processing of the requested communications service comprises the operating of the switching node in the determined operation mode (see Pars. [0013, 0052-54, 0079 and 00996-98]).

Regarding claim 2, as recited in claim 1, Ejzak discloses the method, wherein the communications service request is a call set-up request (see Pars. [0104-07]).

Regarding claim 3, as recited in claim 1, Ejzak discloses the method, wherein the operation mode is determined according to at least one predetermined rule, which is

Art Unit: 2617

set-up according to available network capabilities (SIP for IMS internet-like functionality and services, see Pars. [0020-21 and 0028], whereby the protocol is associated with "predetermined rule").

Regarding claim 4, as recited in claim 1, Ejzak discloses the method, wherein a plurality of incoming routes (signaling link and signaling and data links) from an access network (RAN 121) to the switching node are provided, at least one predetermined rule comprises an assignment of a dedicated incoming route (signaling link) to an operation mode of the switching node, and wherein the step of determining the operation mode comprises a determination of an incoming route of the communication service request and a comparison of the determined incoming route against at least one predetermined rule (see Par. [0034-35]).

Regarding claim 5, as recited in claim 1, Ejzak discloses the method, wherein at least one predetermined rule comprises an assignment of a dedicated access technology to an 6peration mode, said dedicated access technology provided by an access network for serving a subscriber terminal (UE 111) of a communication system comprising the switching node, and wherein the step of determining the operation mode comprises the determination of the access technology used by the subscriber terminal and comparison of the determined access technology against at least one predetermined rule (communication system; 3G CDMA, see Pars. [0020 and 0024]).

Page 6

Art Unit: 2617

Regarding claim 6, as recited in claim 1, Ejzak discloses the method, wherein the communication service request comprises an identifier of a communications service terminating party, at least one predetermined rule comprises an assignment of the identifier to a dedicated operation mode, and wherein the step of determining the operation mode comprises a determination of the identifier and a comparison of the determined identifier against at least one predetermined rule (SIP signaling between two 3GPP UE 111, see Pars. [0080 and 0108], whereby the 3GPP is associated with the "identifier").

Regarding claim 7, as recited in claim 1, Ejzak discloses the method, wherein at least one predetermined rule indicates by means of a statistical distribution factor a distribution, for how many received communications service requests the switching node shall operate as a switching node of the layered architectural environment or as a switching node of the non-layered architectural environment, and wherein the determined operation mode depends on the statistical distribution factor (see Pars. [0038, 0052 and 0055]).

Regarding claim 8, as recited in claim 1, Ejzak discloses the method, wherein the determination of the operation mode comprises a determination of a current load level of the switching node in at least one operation mode, and wherein the determined operation mode for the processing of the requested communications service depends on the determined load level (see Par. [0037]).

Regarding claim 9, as recited in claim 1, Ejzak discloses the method, wherein the communication service request requests a subscriber terminal terminating communications service, wherein at least one predetermined rule comprises an assignment of an access technology available to the subscriber terminal to a dedicated operation mode, and wherein the step of determining the operation mode comprises the determination of the access technology available to the terminating subscriber terminal, and the determined operation mode depends on the determined access technology (see Pars. [CDMA and 3GPP, see [0020 and 0080]).

Regarding claim 10, as recited in claim 1, Ejzak discloses the method, wherein the switching node processes the requested communications service as a MSC/VLR, if the determined operation mode indicates that the switching node is part of the non-layered architectural environment (see Par. [0012-13 and 0095-96]).

Regarding claim 11, as recited in claim 1, Ejzak discloses the method, wherein the switching node processes the requested communications service as a MSC-server, if the determined operation mode indicates that the switching node is part of the layered architectural environment (iMSC server, see Pars. [0095-97] and Fig. 4, step 408).

Regarding claim 12, as recited in claim 1, Ejzak discloses the method, wherein the determination of the operation mode comprises a determination of at least one of a group of an origin of the communications service request and a destination of the

communications service request, and wherein the determined operation mode depends on the at least one determined member of the group (see Pars. [0089-91]).

Regarding claim 13, as recited in claim 1, Ejzak discloses the method, wherein the switching node is determined operatively to process the requested communication service as part of the non-layered architectural environment, if an origin of the communications service request, in particular an originating radio network node, is local to the switching node, and a destination indicated by the communications service request is local to the switching node (see Pars. 0089-91 and 0103).

Regarding claim 14, as recited in claim 1, Ejzak discloses the method, wherein the switching node is determined operatively to process the requested communication service as part of the layered architectural environment, if an origin of the communications service request, in particular an originating radio network node, is remote to the switching node, and a destination indicated by the communications service request is remote to the switching node (see Pars. 0089-91 and 0103).

Regarding claim 15, as recited in claim 14, Ejzak discloses the method, wherein the switching node applies local switching, if an origin of the communications service request, in particular an originating radio network node, is local to the destination indicated by the communications service request (see Par. [0081]).

Regarding claim 16, as recited in claim 1, Ejzak discloses the method, wherein the switching node is determined operatively to process the requested communication service as part of the layered architectural environment, if an origin of the communications service request, in particular an originating radio network node, is remote to the switching node, and a destination indicated by the communications service request is local to the switching node (service base on location, see Par. [0081]).

Regarding claim 17, as recited in claim 1, Ejzak discloses the method, wherein the switching node is determined operatively to process the requested communication service as part of the layered architectural environment, if an origin of the communications service request, in particular an originating radio network node, is local to the switching node, and a destination indicated by the communications service request is remote to the switching node (see Par. [0079-81]).

Regarding claim 19, Ejzak discloses a network node, in particular a combined MSC/VLR (tradition MSC) and MSC-server (MSC server or iMSC server interconnected with IMS 141) (see Par. [0012-13] and Fig. 1, comprising:

an access network interface for the user plane (interface between 111 and RAN 121, see Fig. 1)

an access network interface for the control plane (see Pars. [0025 and 0030]), a core network interface for the user plane (see Pars. [0030-32]),

Art Unit: 2617

a core network interface for the control plane, a media gateway interface (see Pars. [0030, 0036 and 0047-48]),

a media gateway operation unit connected to the user plane interfaces adapted to provide media gateway functions (see Pars. [0025 and 0030 and 0036]),

a MSC-server operation unit connected to the control plane interfaces and to the media gateway interface, the MSC-server operation unit adapted to provide Msc-server functionality (MSC server 152, and iMSC 201),

a selection unit adapted to determine for a communication service request (call set up, see Figs. 4 and 5), an operation mode for a processing of the requested communication service by identifying the protocol associated with the communications service request, wherein the determined operation mode indicates whether the network node is operatively for the processing of the requested communication service part of a layered architectural environment providing a user plane layer for user data and a control plane layer for signaling data (determination for the system to serve as traditional MSC or iMSC server, see Par. [0012, 0095-96] and Fig. 4, steps 403 and 404), or operatively part of a non-layered architectural environment not providing a split between a user plane and a control plane and a processor connected to the interfaces and units of the switching node, said processor being adapted to process a requested communications service in accordance with a determined operation mode of the network node (see Par. [0096-0100] and Fig. 4, steps 408 and 420).

Application/Control Number: 10/516,866 Page 11

Art Unit: 2617

Regarding claim 20, as recited in claim 19, Ejzak discloses the node comprising means for storing (HSS 142), in particular a lookup table, network node identifiers and related indications, indicating whether the identified network nodes are local or remote to the network node (see Pars. [0048-52).

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kauhanen (U.S. 20030157935) teaches an intersystem handover with modified parameter.

Bharatia (U.S 6,763,233) teaches terminal roaming operations between intergenerational wireless networks.

6. **Examiner's Note**: Examiner has cited particular columns and line numbers in the references applied to the claims above for the convenience of the applicant. Although the specified citations are representative of the teachings of the art and are applied to specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses, to fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the Examiner.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kwasi Karikari whose telephone number is 571-272-8566. The examiner can normally be reached on M-F (8 am - 4pm). If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Feild can be reached on 571-272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8566. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patent Examiner.

05/18/2007

SUPERVISORY PATENT EXAMINER

Page 12